

**WEAR** CONTAMINATION **FLUID CONDITION** 

NORMAL **ABNORMAL NORMAL** 

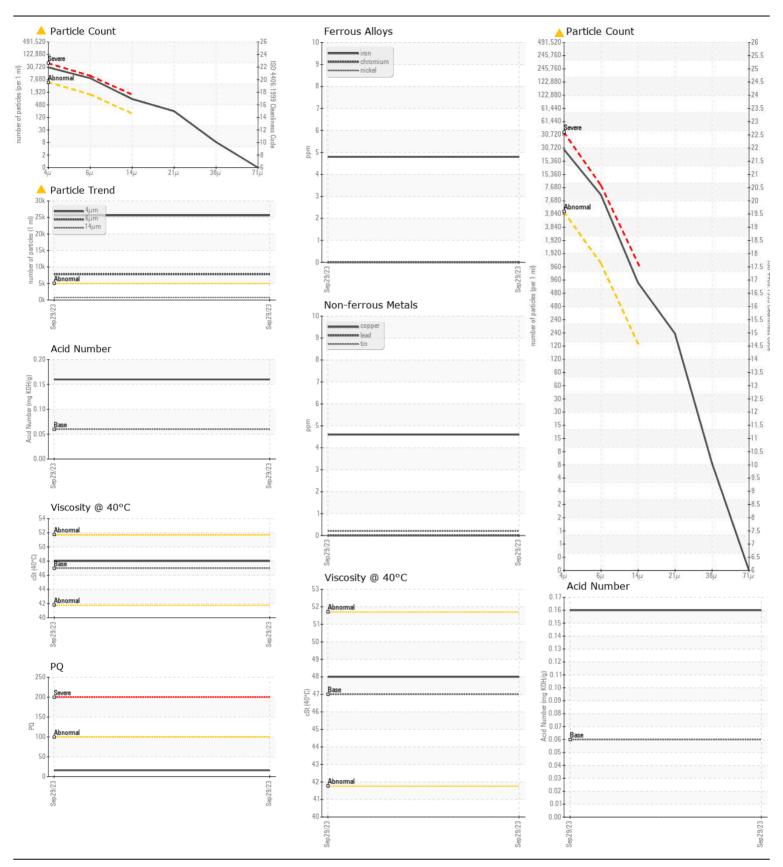
Store 9 - Marietta

## **JOHN DEERE 105602**

Component Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

HITACHI HYDRAULIC SUPER EX 46HN ( GA	<u>-)</u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0035414		
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Sample Date		Client Info		29 Sep 2023		
	Machine Age	hrs	Client Info		421		
	Oil Age	hrs	Client Info		421		
	Filter Age	hrs	Client Info		421		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		16		
WEAN	Iron	ppm	ASTM D5185m	>20	5		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		<u>^</u> 25596		
	Particles >6µm		ASTM D7647		▲ 7803 ▲ 700		
	Particles >14µm		ASTM D7647		<u>^</u> 786		
	Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647		▲ 207 7		
	Particles >30µm		ASTM D7647		0		
	Oil Cleanliness				<u>A</u> 22/20/17		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185m		12		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m ASTM D5185m	927	45 201		
	Phosphorus Zinc	ppm	ASTM D5185m		391 40		
	Sulfur	ppm	ASTM D5185m		559		
	Acid Number (AN)	mg KOH/g	ASTM D3103111		0.16		
	Visc @ 40°C	cSt	ASTM D0045		48.0		
	1.00 @ 10 0	001	. 10 . 111				





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: LEC0035414 : 06065501 : 10836883

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Jan 2024

Diagnosed : 22 Jan 2024 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: PQ ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**BRIDGEPORT EQUIPMENT & TOOLS** 

156 QUEEN ANNE DR BECKLEY, WV US 25801

Contact: Service Manager

T: F: